

RACU ACTIVATION

1. VERIFY FGB COMMAND STATUS

NOTE

RACU commands sent from orbiter will not work if FGB relay matrix is in **MCC-M** command state (COMMANDING - INH). Crew can follow ground activities using the "If ENA" block below.

CRT

SM 204 FGB

√COMMANDING - INH

2. If COMMANDING - INH

Shuttle ↓ **MCC-H**: "Ready for RACU5(6) Power On."

MCC-H ⇒ **MCC-M**: "Go for RACU5(6) Power On."

RUSSIAN GROUND	<u>AOS</u>	<u>LOS</u>
Pass 1	___/___:__:___	___/___:__:___
Pass 2	___/___:__:___	___/___:__:___

MCC-M ⇒ **MCC-H** ↑ shuttle: "RACU5(6) Power On at ___/___:__:___ GMT."

3. If COMMANDING - ENA

Shuttle ↓ **MCC-H**: "Ready for RACU5(6) Power On."

MCC-M ⇒ **MCC-H**: "Go for RACU5(6) Power On."

MCC-H ↑ shuttle: "Go for RACU5(6) Power On."

On MCC GO

CRT

SM 204 FGB

PCS

nav FGB: EPS
FGB: EPS

√FGB Main Bus Voltage 1,2 (two): 28.0 --- 29.0 V

√FGB Batt Voltage 1 --- 6 (six) > 25.5 V

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*****
* If any FGB Batt Voltage < 25.5 Volts, then *
*   Notify MCC: "FGB Batteries Low."      *
*   Wait 1 orbit for FGB batteries to charge. *
*****

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CRT

SM 210 NODE

√FRM CTR - Incrementing

If FRM CTR - Static

SM 204 FGB

RACU 5(6) PWR ON VIA FGB - ITEM 1 (ITEM 3) EXEC

√RACU 5(6) Power On - *

√Input Amps > 3.0 A

√Output Volts: 121 --- 125 V

√Amps: 0.3 --- 10 A

NOTE

Amperage should be at 0.5 amps at power On.
Amperage could be as high as 10 amps after
MDM initialization (approximately 2.5 minutes),
depending on heater usage.

* If RACU 5(6) OUT AMPS > 10 *
* RACU 5(6) PWR OFF VIA FGB - ITEM 5 *
* (ITEM 7) EXEC *

If FRM CTR - Incrementing

SM 204 FGB

RACU 5(6) PWR ON VIA NCS - ITEM 2 (ITEM 4) EXEC

√RACU 5(6) Power On - *

√Input Amps > 3.0 A

√Output Volts: 121 --- 125 V

√Amps: 0.3 --- 10 A

NOTE

Amperage should be at 0.5 amps at power On.
Amperage could be as high as 10 amps after
MDM initialization (approximately 2.5 minutes),
depending on heater usage.

* If RACU 5(6) OUT AMPS > 10 *
* RACU 5(6) PWR OFF VIA FGB - ITEM 6 *
* (ITEM 8) EXEC *

PCS

nav FGB: EPS

FGB: EPS

sel RACU Details

sel Commands

cmd FGB RACU5(6) - On Execute

√RACU 5(6) Converter - On

√RACU 5(6) Converter Input Current > 3.0 A

√Output Current: 0.5 --- 10 A

Voltage: 121 --- 125 V

NOTE

Amperage should be at 0.5 amps at power On.
Amperage could be as high as 10 amps after
MDM initialization (approximately 2.5 minutes),
depending on heater usage.

* If RACU 5(6) Output Current > 10 *

* sel Commands *

* **cmd FGB RACU 5(6) - Off Execute** *
